

FIG. 1

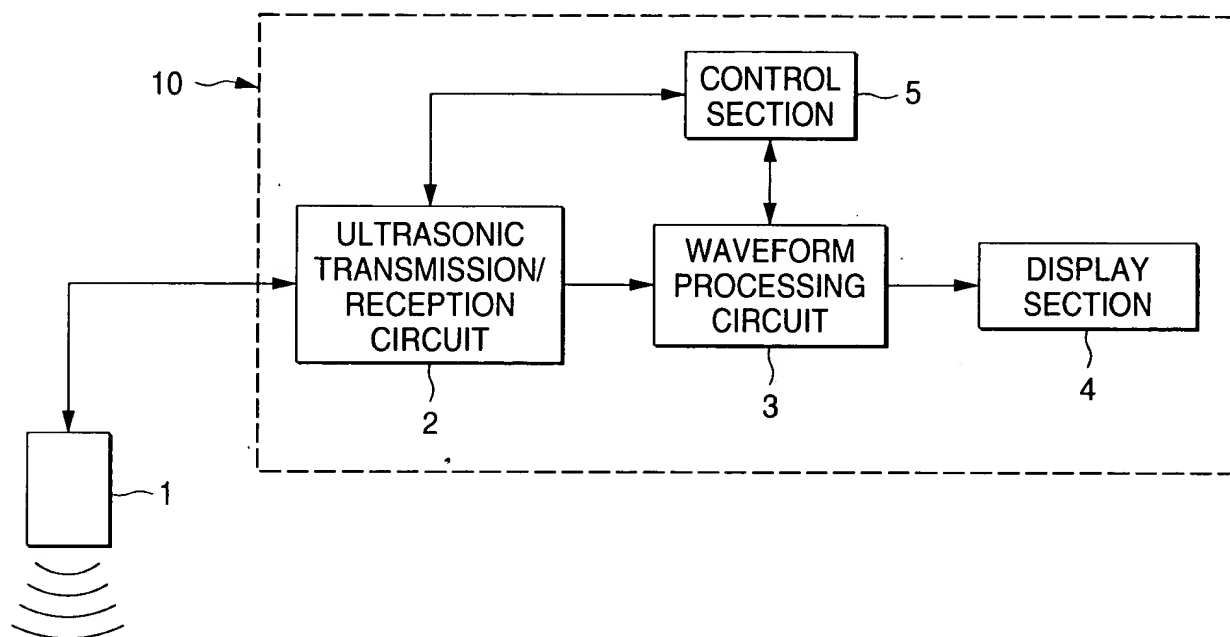
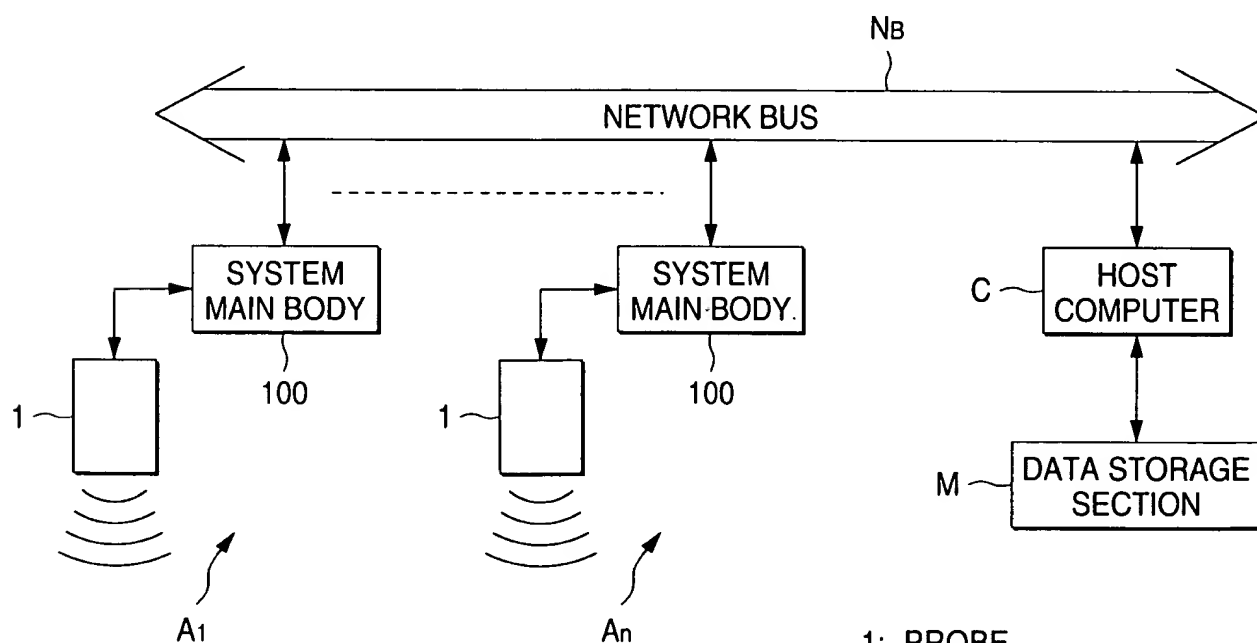


FIG. 2



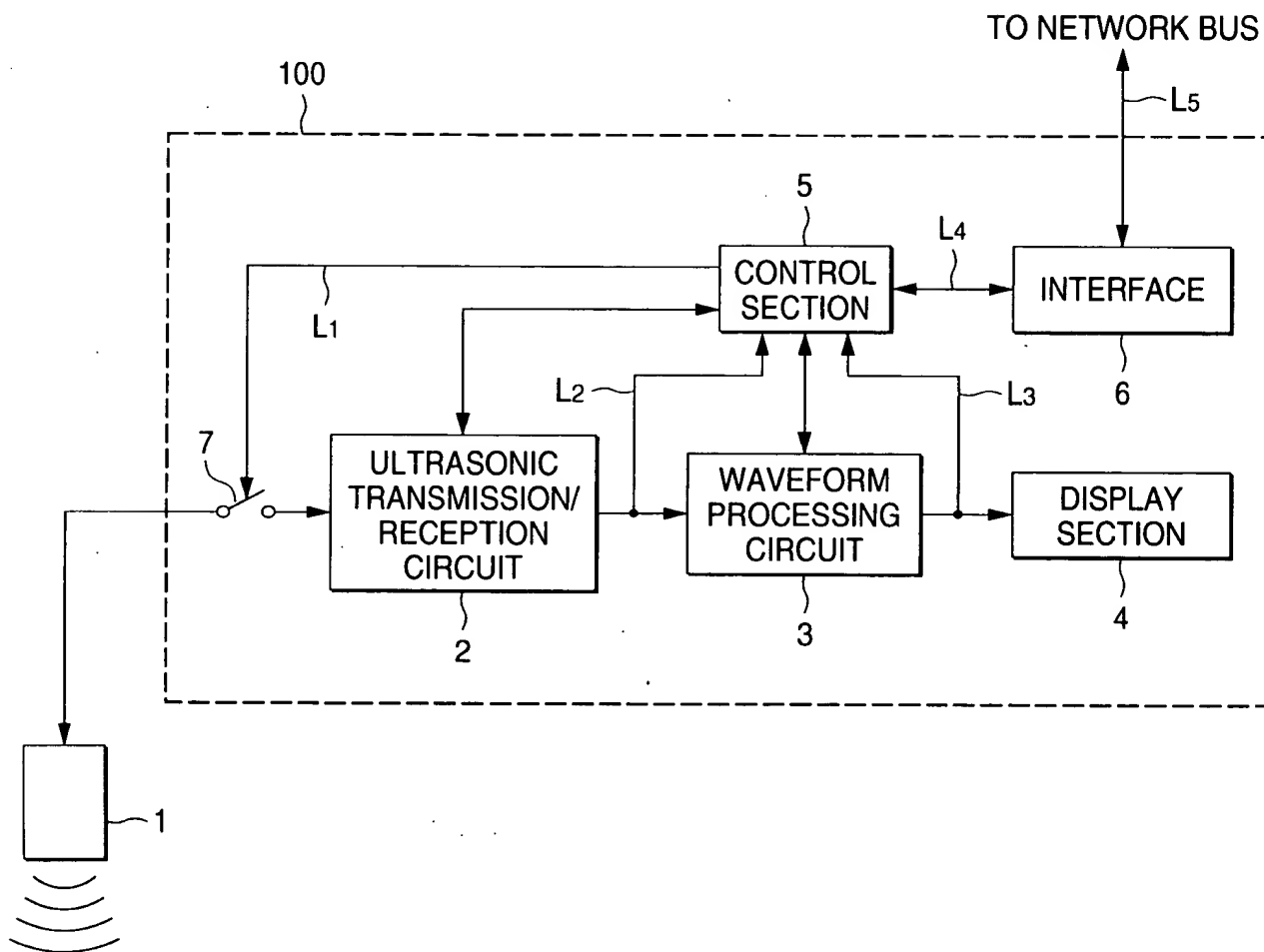
1: PROBE
A1~ An: ULTRASONIC INSPECTION SYSTEMS

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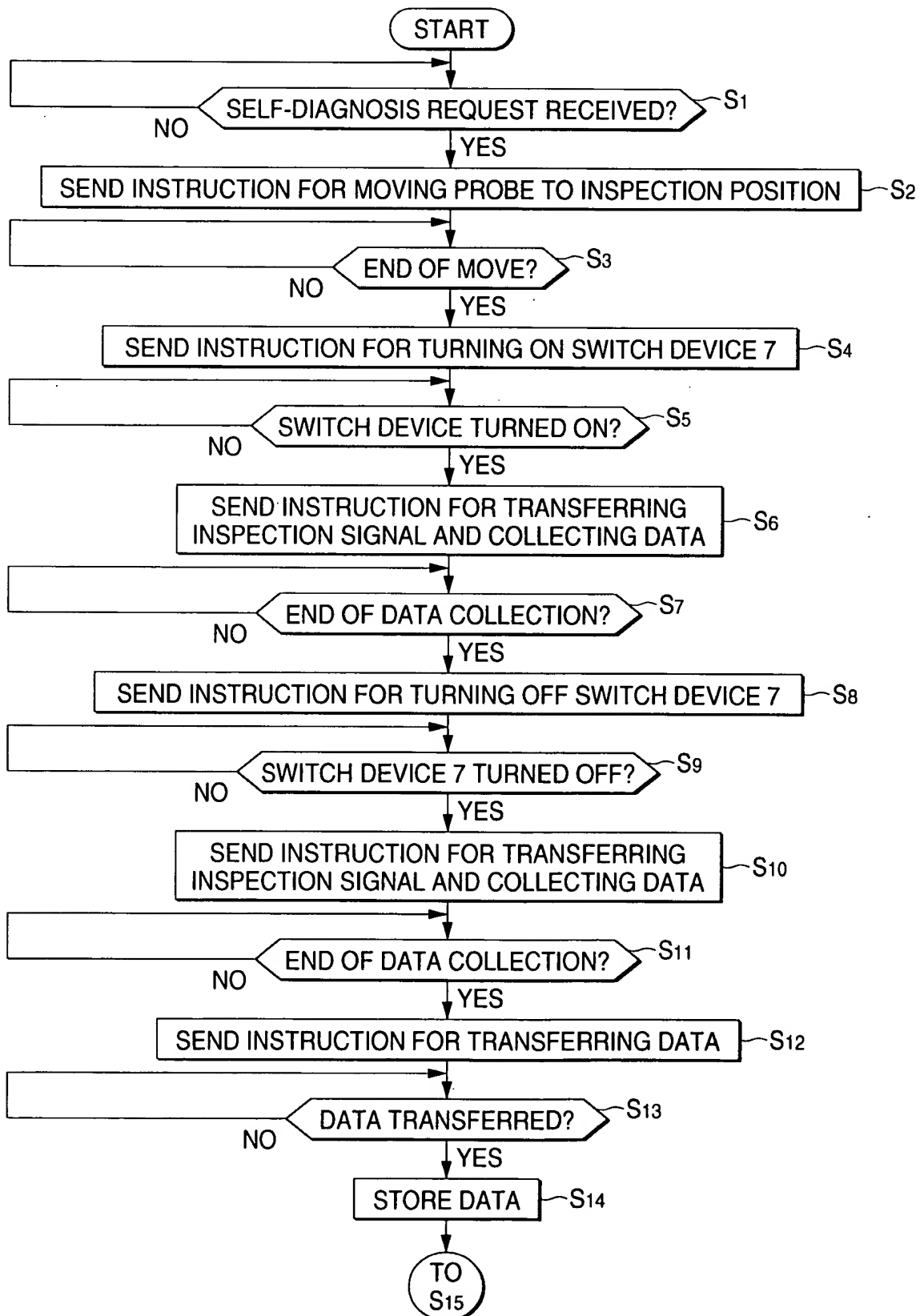
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FIG. 3



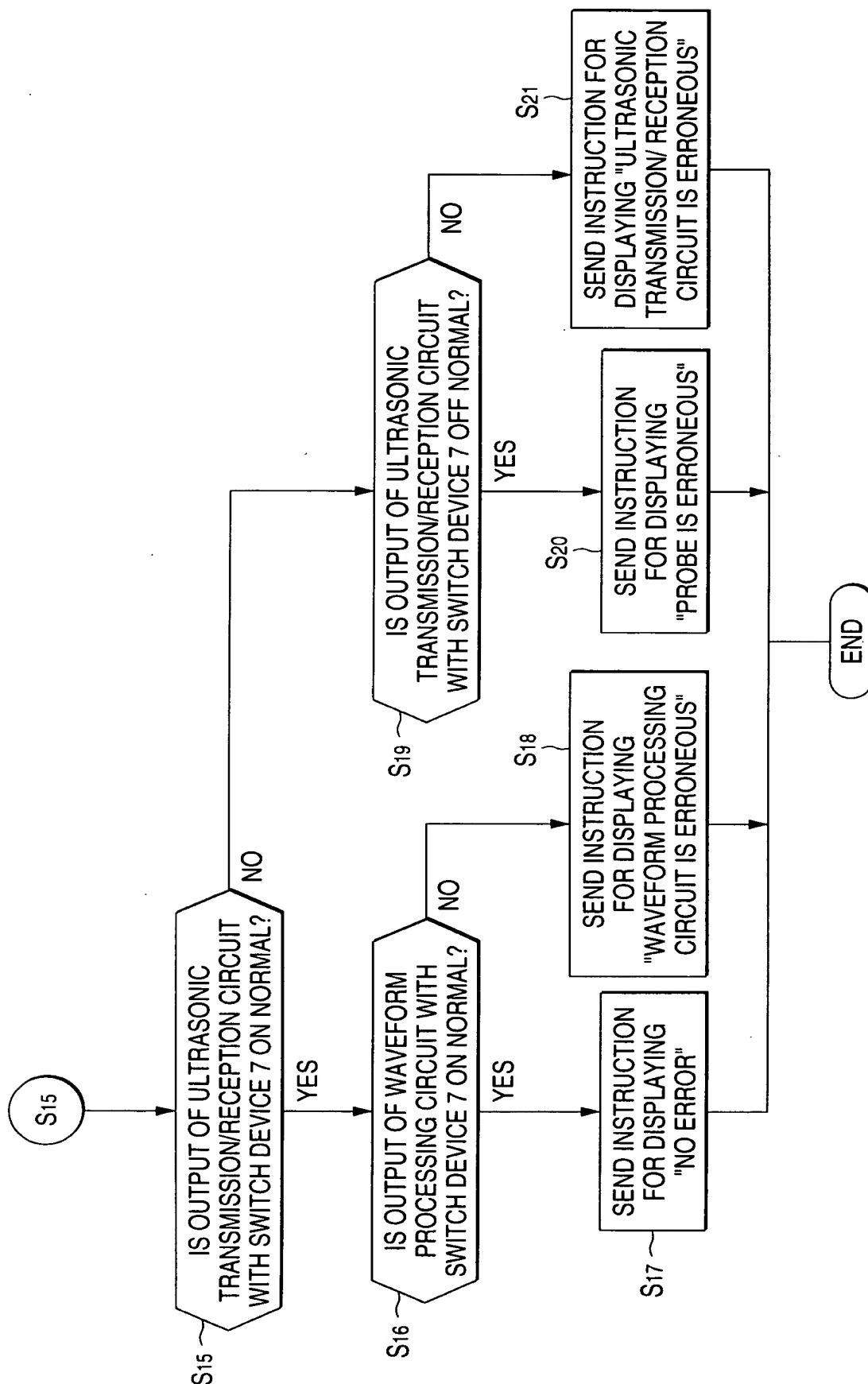
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FIG. 4



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FIG. 5



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FIG. 6

NOMINAL VALUES	MODEL	10Z20F15		
	MANUFACTURE NO.	KH010-25		
	VIBRATOR DIAMETER (mm)	20		
	CENTER FREQUENCY (MHz)	10		
	FOCAL DISTANCE (mm)	15		
	BEAM DIAMETER (mm)	0.16		
	⋮	⋮		
ACTUAL MEASURE- MENT VALUES	INSPECTION CONTENTS	SHIPMENT INSPECTION	PERIODIC INSPECTION 1	PERIODIC INSPECTION 2
	DATE	1996 / 8 / 5	1997 / 2 / 7	1997 / 3 / 1
	INSPECTOR	KENTA HITACHI	YOSHIHIKO TAKISHITA	YOSHIHIKO TAKISHITA
	CENTER FREQUENCY (MHz)	11.2		
	LOWER FREQUENCY (MHz)	7.5		
	HIGHER FREQUENCY (MHz)	13.4		
	BAND WIDTH (%)	52.7		
	FOCAL DISTANCE (mm)	15.3		
	PULSE WIDTH (μm)	0.35	0.42	0.51
	BEAM DIAMETER (mm)	0.18		
	SENSITIVITY (dB)	-34.8	-37.5	-41.2
	ELECTROSTATIC CAPACITY (pF)	210		
	⋮	⋮	⋮	⋮
		↑ ROW A	↑ ROW B	↑ ROW C

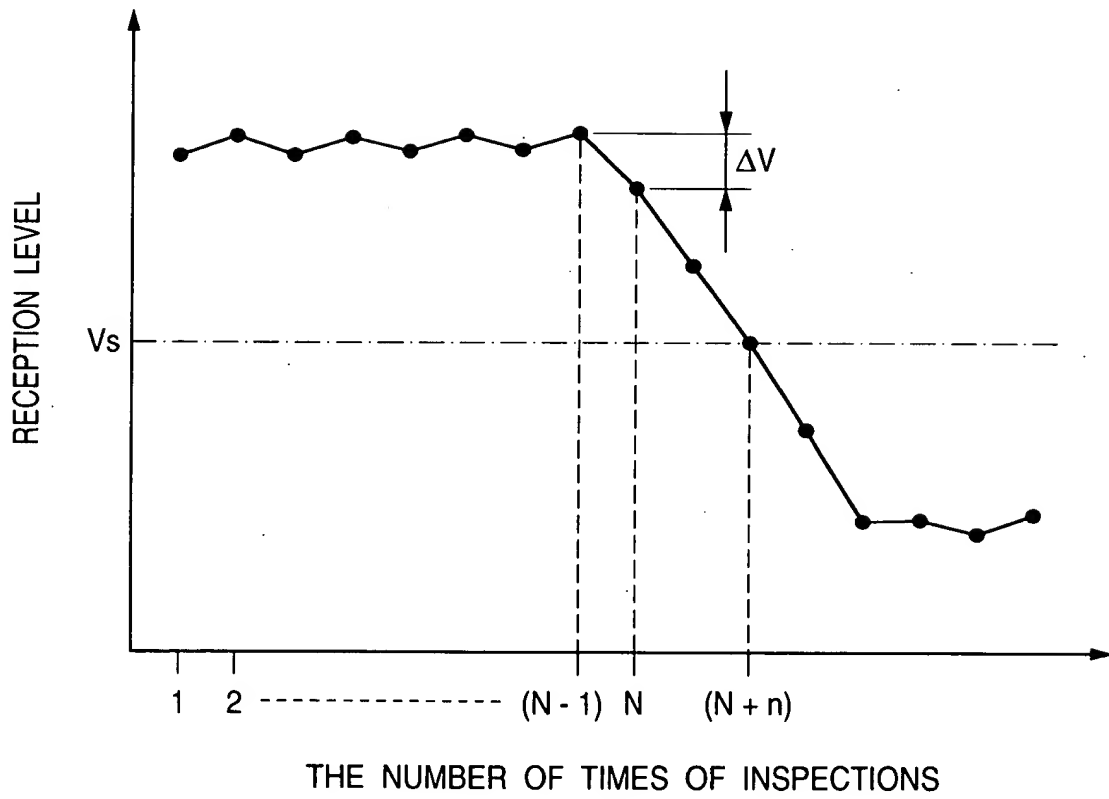
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FIG. 7



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FIG. 8

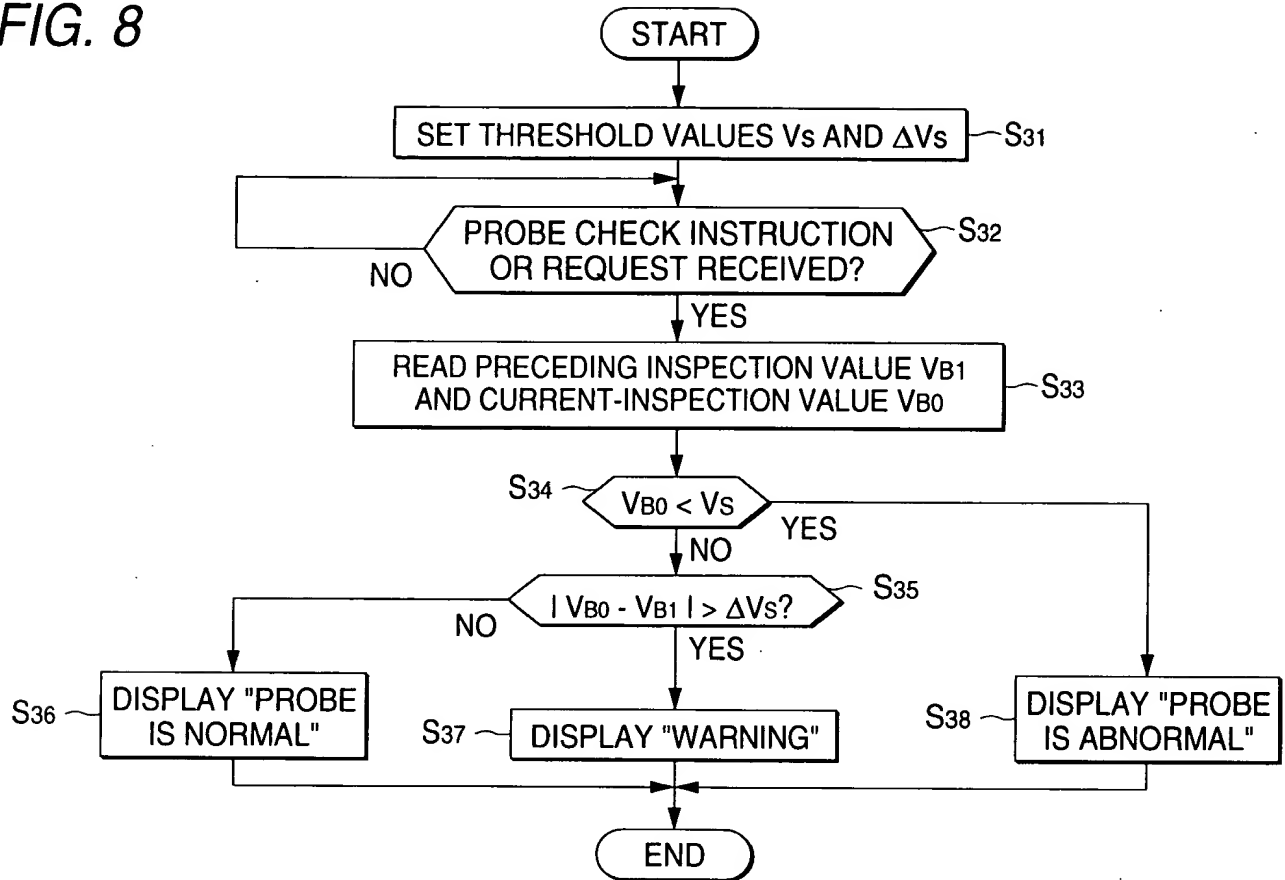
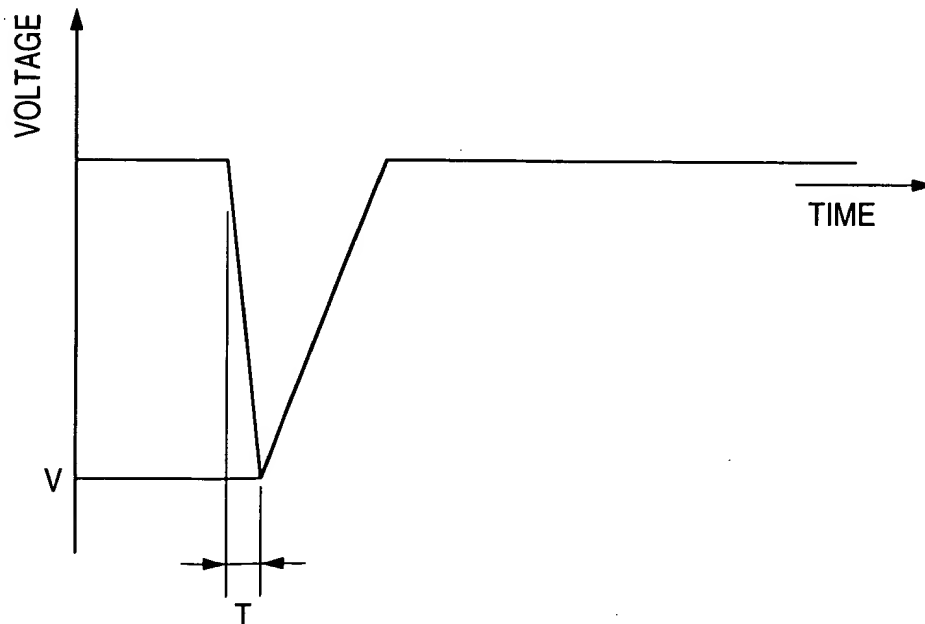


FIG. 9



APPROVED	O.G. FIG.	
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FIG. 10

NOMINAL VALUES	MODEL	ATS035P	SHIPMENT INSPECTION 1996 / 8 / 5 KENTA HITACHI	USER INSPECTION 1 1997 / 2 / 7 YOSHIHIKO TAKISHITA	USER INSPECTION 2 1997 / 3 / 1 YOSHIHIKO TAKISHITA
	MANUFACTURE NO.	KH31-P5			
	MAX PULSE VOLTAGE (V)	-300			
	PULSE FALLING TIME (nsec)	10			
			
ACTUAL MEASUREMENT VALUES	INSPECTION CONTENTS		ROW A ↑	ROW B ↑	ROW C ↑
	DATE	1996 / 8 / 5			
	INSPECTOR	KENTA HITACHI			
	PULSE VOLTAGE SETTING = 50V	52			
	PULSE VOLTAGE SETTING = 100V	101			
	PULSE VOLTAGE SETTING = 150V	149			
	PULSE VOLTAGE SETTING = 200V	202			
	PULSE VOLTAGE SETTING = 250V	248			
	PULSE VOLTAGE SETTING = 300V	302			
	PULSE FALLING TIME (nsec)	9.7			
			

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FIG. 11

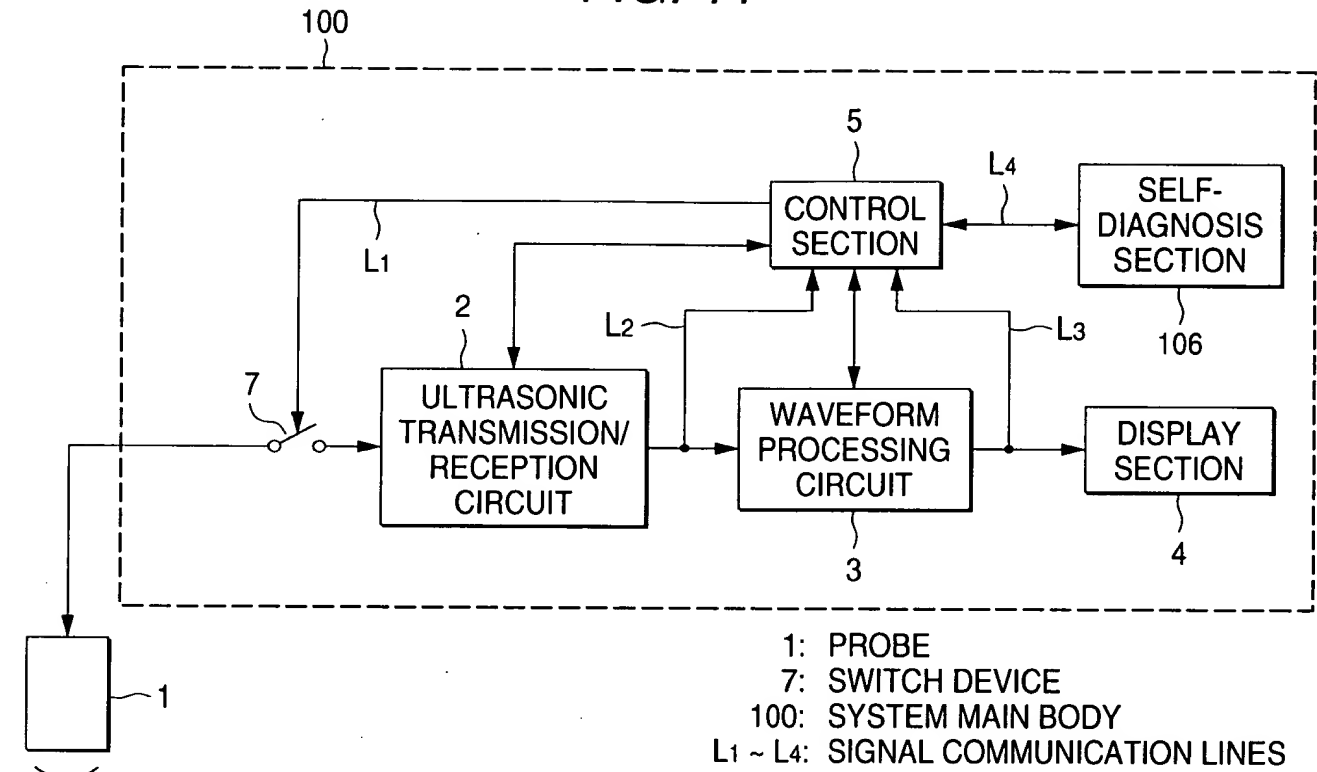
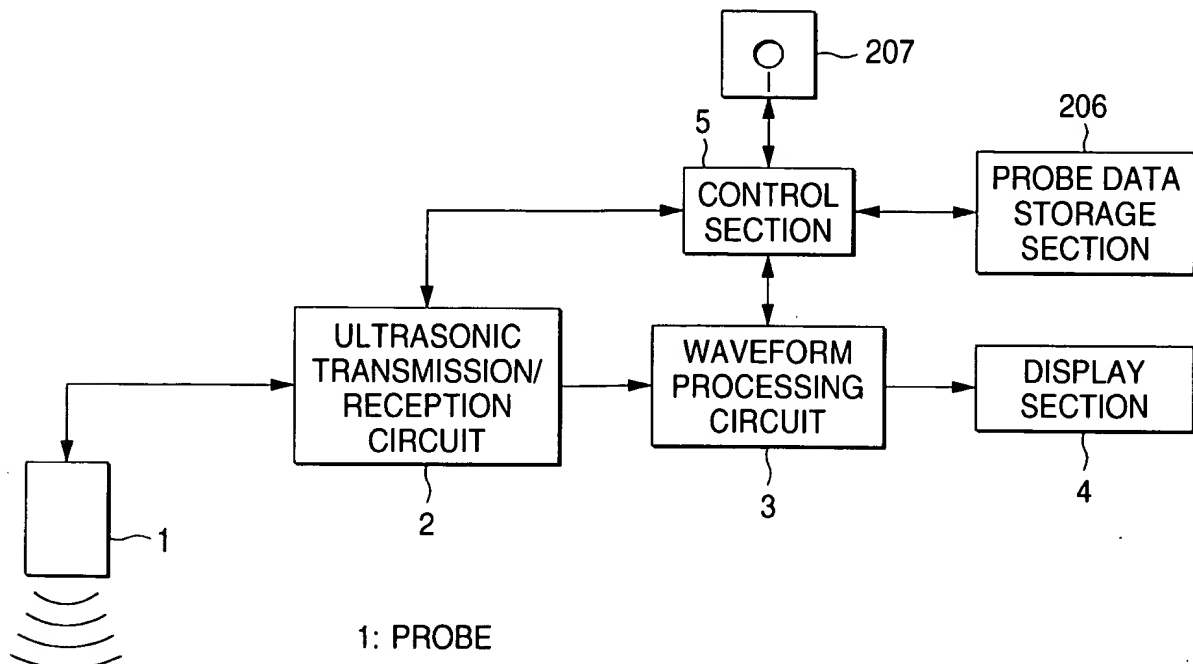


FIG. 12



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FIG. 13

	PROBE REFERENCE NO.	1	2	3	-----
NOMINAL VALUES	MODEL	10Z20F15	10Z20F15	15Z10F10	-----
	MANUFACTURE NO.	KH010-25	KH010-23	KH015-13	
	VIBRATOR DIAMETER (mm)	20	20	10	
	CENTER FREQUENCY (MHz)	10	10	15	
	FOCAL DISTANCE (mm)	15	15	10	
	BEAM DIAMETER (mm)	0.16	0.16	0.14	
	⋮	⋮	⋮	⋮	
ACTUAL MEASURE- MENT VALUES	MOST RECENT INSPECTION CONTENTS	USER INSPECTION	SHIPMENT INSPECTION	SHIPMENT INSPECTION	-----
	MOST RECENT INSPECTION DATE	1997 / 3 / 1	1996 / 7 / 20	1995 / 2 / 14	
	INSPECTOR	YOSHIHIKO TAKISHITA	KENTA HITACHI	TARO KANDATSU	
	CENTER FREQUENCY (MHz)	11.2	10.5	15.3	
	LOWER FREQUENCY (MHz)	7.5	7.2	11.8	
	HIGHER FREQUENCY (MHz)	13.4	14.2	19.4	
	BAND WIDTH (%)	52.7	66.7	49.7	
	FOCAL DISTANCE (mm)	15.3	14.9	9.5	
	PULSE WIDTH (μm)	0.51	0.32	0.23	
	BEAM DIAMETER (mm)	0.18	0.19	0.16	
	SENSIVITY (dB)	-41.2	-36.2	-43.5	
	ELECTROSTATIC CAPACITY (pF)	210	202	193	
	⋮	⋮	⋮	⋮	
	⋮	⋮	⋮	⋮	

↑
ROW D↑
ROW E↑
ROW F

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FIG. 14

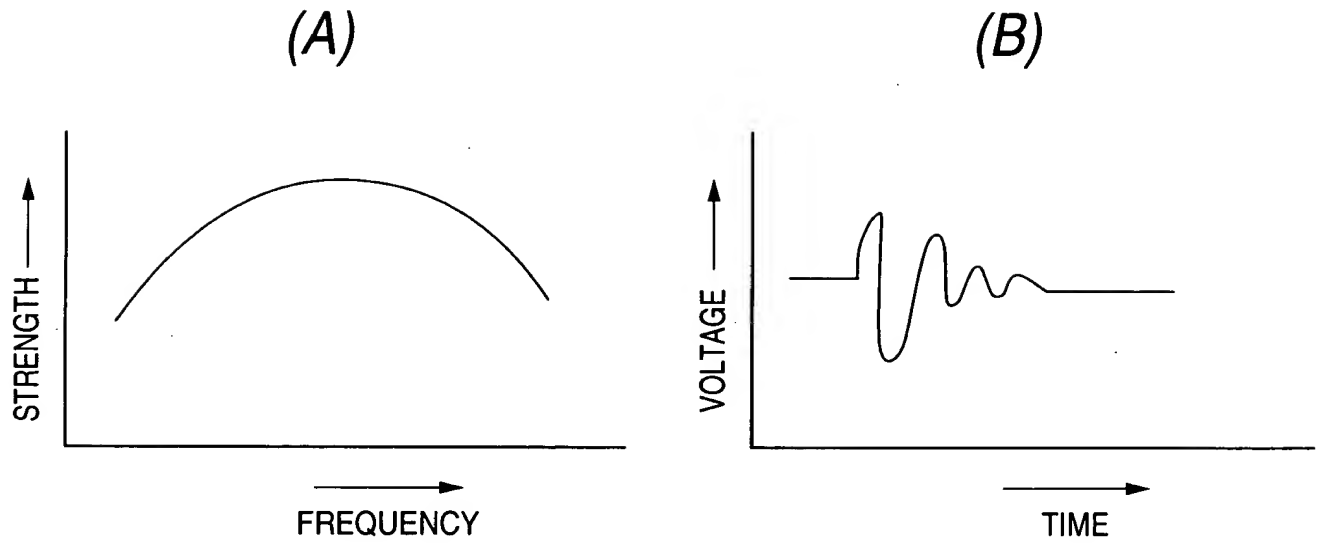


FIG. 15

